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Sofia University "St.Kliment Ohridski", Faculty of Physics, specialty "Laser physics and optics"

Main research area

Physics, atomic physics, high resolution spectroscopy, coherent population trapping, magneto-optical effects

Membership in scientific societies

Bulgarian Physical Union

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Selected scientific publications

1. Alipieva, E., Andreeva, C., Avramov, L., Bevilaqua, G., Biancalana, V., Borisova, E., Breschi, E., Cartaleva, S., Dancheva, Y., Gateva, S., Karaulanov, T., Lammegger, R., Moi, L., Petrov, L., Petrov, N., Slavov, D., Taskova, E., Todorov, G., Windholz, L., Yanev, A.. Coherent population trapping for magnetic field measurements. *Proceedings of SPIE - The International Society for Optical Engineering*, 5830, 27, SPIE, 2005
2. Biancalana, V, Cartaleva, S, Dancheva, Y., Gosh, P.N, Mariotti, E, Mitra, S, Moi, L, Petrov, N, Ray, B, Sarkisyan, D, Slavov, D. Population loss in closed optical transitions of Rb and Cs atoms confined in micrometric thin cells. *Acta Physica Polonica A*, 116, 4, 2009, 495 - 497
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8. Nasyrov, K, Entin, V, Nikolov, N, Petrov, N, Cartaleva, S. Simple method for characterization of anti-relaxation coating of optical cells. Proceedings of SPIE - The International Society for Optical Engineering, 9447, 2015, 1 - 10, SJR:0.212,
9. Petrov, N, Karaulanov, T, Yanev, A, Todorov, B, Cartaleva, S. All-optical method and device for magnetic field measurement. Proceedings of SPIE, 5449, 2004, 388 - 395
10. Slavov, D., Bevilacqua, G., Biancalana, V., Cartaleva, S., Dancheva, Y., Karaulanov, T., Moi, L., Petrov, N., Yanev, A.. Coherent population trapping for continuous and alternating magnetic fields measurements. AIP Conference Proceedings, 899, AIP Publishing, 2007, 175 - 176.
11. П. Н. Гош, П. Т. Зъбов, С. С. Карталева, С. Митра, Н. П. Петров, Б. Рой, Д. Саркисян, Д. Г. Славов. Резонансы когерентного пленения населенности в микрометрических ячейках, заполненныхарами цезия. Известия Высших Учебных Заведений, 2011, 126 – 131
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